

NAS

# N300 NAS Hard Drive

Built for 24/7 reliability



18 TB 16 TB 14 TB 12 TB 10 TB 8 TB 6 TB 4 TB

Color

EMEA Region, Toshiba Storage Solutions – The 3.5-inch N300 NAS Hard Drive offers unprecedented reliability for NAS and other high-performance storage systems. It is optimized to meet the reliability, endurance, performance and scalability requirements of 24-hour x 7-day high-capacity storage for personal, home office and small business use. The N300 is available in capacities of up to 18 TB.

Use for:

- Network Attached Storage (NAS)
- Desktop RAID and servers
- Multimedia server storage
- Private cloud storage
- Small business server and storage



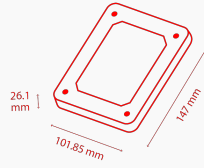
- ? 3.5" SATA Hard Drive
- ? 7200 rpm
- ? 256/512 MB buffer
- ? 24/7 operation
- ? Supports 1-to-8 bay NAS
- ? High reliability and enhanced real-time performance
- ? Toshiba Dynamic Cache Technology
- ? Toshiba Stable Platter Technology
- ? High-endurance design
- ? Error recovery control
- ? Temperature control
- ? 3-year warranty

## Manual

[Installation-and-Safety-Internal-HDDs.pdf](#) ?



# Product Specifications



## Basic Specifications

Form factor	3.5-inch
Interface	SATA 6.0 Gbit/s
Drive bays supported	1 to 8
Rotational Vibration (RV) Sensors	yes
Advanced Format (AF)	yes
RoHS compatible	yes
Halogen Free	Yes
Shock Sensor	yes

## Performance

Rotational speed	7,200 rpm
Buffer size	512 MB (14 TB - 18 TB), 256 MB (4 TB - 12 TB)
Data transfer speed	281 MB/s typ. (18 TB), 274 MB/s typ. (16 TB), 260 MB/s typ. (14 TB), 253 MB/s typ. (12 TB), 248 MB/s Typ. (10 TB), 260 MB/s Typ. (8 TB), 250 MB/s Typ. (6 TB), 232 MB/s Typ. (4 TB)
Average latency	4.17 ms
Native Command Queing (NCQ)	supported

## Reliability

Workloads	180 TB/year
MTTF	1,200,000 hours (14 TB - 18 TB) / 1,000,000 hours
Unrecoverable error rate	1 per 10 <sup>14</sup> bits read (10 TB - 18 TB), 1 per 10 <sup>15</sup> bits read (4 TB - 8 TB)
24/7 operation	yes
Limited warranty	3 years

## Power Management

Supply voltage	5VDC (+10%/-7%) / 12VDC (±10%) (14 TB - 18 TB) 5VDC (+10%/-5%) / 12VDC (±10%) (10 TB) 5VDC (±5%) / 12VDC (±10%) (4 TB - 8 TB, 12 TB)
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## Box Content

Box Content	3.5-inch internal hard drive - N300 NAS Hard Drive
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## Physical

Weight (approx.)	693 g max. (4 TB), 700 g max. (6 TB), 770 g max. (10 TB), 720 g max. (8 TB, 12 TB - 18 TB)
Dimensions	147 (L) x 101.85 (W) x 26.1 (H) mm

## Environmental

Acoustics (idle mode)	20 dB typ. (12 TB - 18 TB), 34 dB typ. (10 TB), 31 dB typ. (4 TB - 8 TB)
Shock (non-operating)	2450 m/s <sup>2</sup> (250 G) / 2 ms duration
Shock (operating)	686 m/s <sup>2</sup> (70 G) / 2 ms duration
Vibration (non-operating)	29.4 m/s <sup>2</sup> (3.0 G) (5 to 500Hz)
Vibration (operating)	10 TB - 18 TB: 7.35 m/s <sup>2</sup> (0.75 G) (5 to 300 Hz) 2.45 m/s <sup>2</sup> (0.25 G) (300 to 500 Hz) 4 TB - 8 TB: 7.35 m/s <sup>2</sup> (0.75 G) (2 to 300 Hz) 4.90 m/s <sup>2</sup> (0.50 G) (300 to 350 Hz) 2.45 m/s <sup>2</sup> (0.25 G) (350 to 500 Hz)
Temperature (operating / non-operating)	5 to 60° C / -40 to 70°C (18 TB, 12TB) 0 to 65° C / -40 to 70°C (10 TB, 14 TB, 16 TB) 5 to 65° C / -40 to 70°C (4 TB - 8 TB)

## Power Management

Consumption - Active Idle	4.14 W typ. (18TB), 4.03 W typ. (16 TB, 14 TB) 4.28 W typ. (12 TB), 7.22 W typ. (10 TB), 5.61 W typ. (8 TB), 4.93 W typ. (6 TB), 4.04 W typ. (4 TB)
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# Product Range

Part number	Capacity	Color
HDWG51JUZSVA (Bulk)	18 TB	-
HDWG31GUZSVA (Bulk)	16 TB	-
HDWG31EEZSTA (Retail)	14 TB	-
HDWG31EUZSVA (Bulk)	14 TB	-
HDWG21CEZSTA (Retail)	12 TB	-
HDWG21CUZSVA (Bulk)	12 TB	-
HDWG11AEZSTA (Retail)	10 TB	-
HDWG11AUZSVA (Bulk)	10 TB	-
HDWG480EZSTA (Retail)	8 TB	-
HDWG480UZSVA (Bulk)	8 TB	-
HDWG460EZSTA (Retail)	6 TB	-
HDWG460UZSVA (Bulk)	6 TB	-
HDWG440EZSTA (Retail)	4 TB	-
HDWG440UZSVA (Bulk)	4 TB	-

## Logistical Information:

Box dimensions	189.0 mm (H) x 136.0 mm (W) x 60.0 mm (D)
Box weight (gross)	915 g max.
Master carton dimensions	265 x 150 x 210 mm
Master carton weight (gross)	3914 g max.
Boxes per master carton	4 pcs
Pallet dimensions	1150 x 1150 x 130 mm
Pallet weight (net)	n/A
Units per pallet	480 pcs
Units per carton	20 pcs.
Carton dimensions	500 x 310 x 228 mm (12 TB - 18 TB), 410 x 308 x 228 mm (4 TB - 10 TB)
Carton weight (gross)	17 kg (typ.), 16 kg (typ.) (4TB)
Units per pallet	600 pcs.

## Contact

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